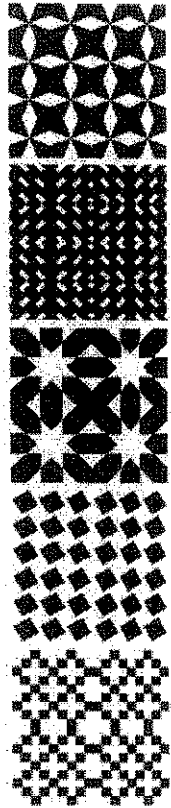


THE QUADRILATERAL DETECTIVE

a Coordinate Geometry Assessment



Case #1

The locations:

- A: (5, 8)
- B: (5, -2)
- C: (-5, -2)
- D: (-5, 8)

The EVIDENCE:

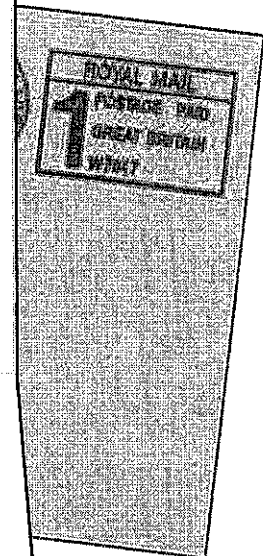
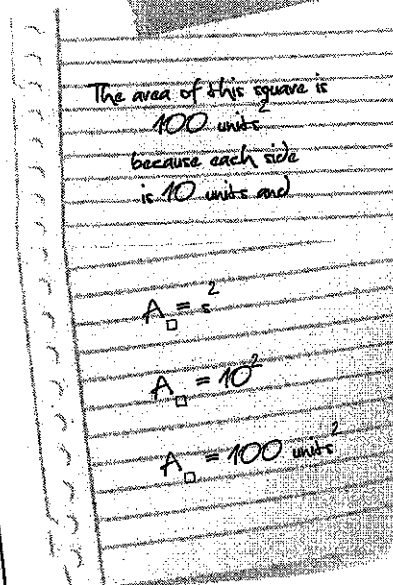
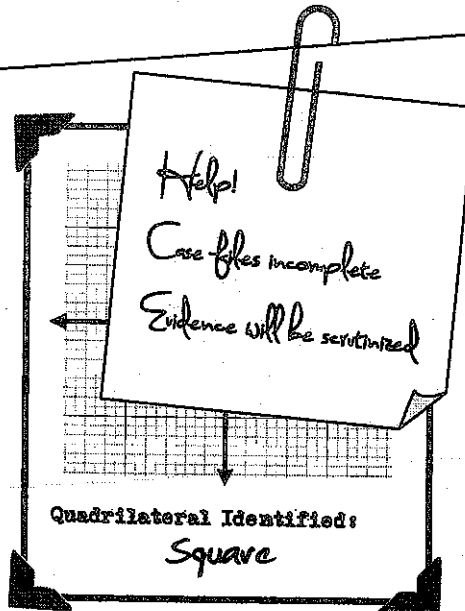
- AB = 10 units long with undefined slope
- BC = 10 units long with slope of zero
- CD = 10 units long with undefined slope
- DA = 10 units long with slope of zero

$$AB = \sqrt{(5-5)^2 + (-2-8)^2}$$

Inspector Quadro has mysteriously disappeared!

Before his disappearance, he was only able to complete the first of the case files in this investigation. Foul play is suspected.

Please expedite.

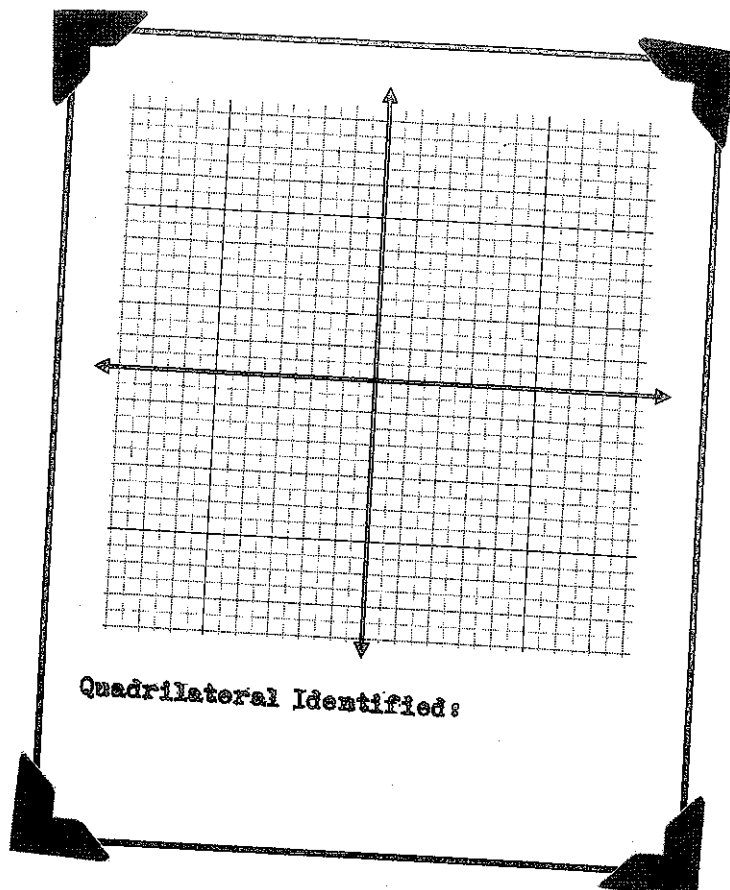


CASE # 2

The locations:

A: (2, 10)
B: (-4, 10)
C: (-6, -1)
D: (4, -1)

The EVIDENCE:



Area:

The evidence:

CASE # 3

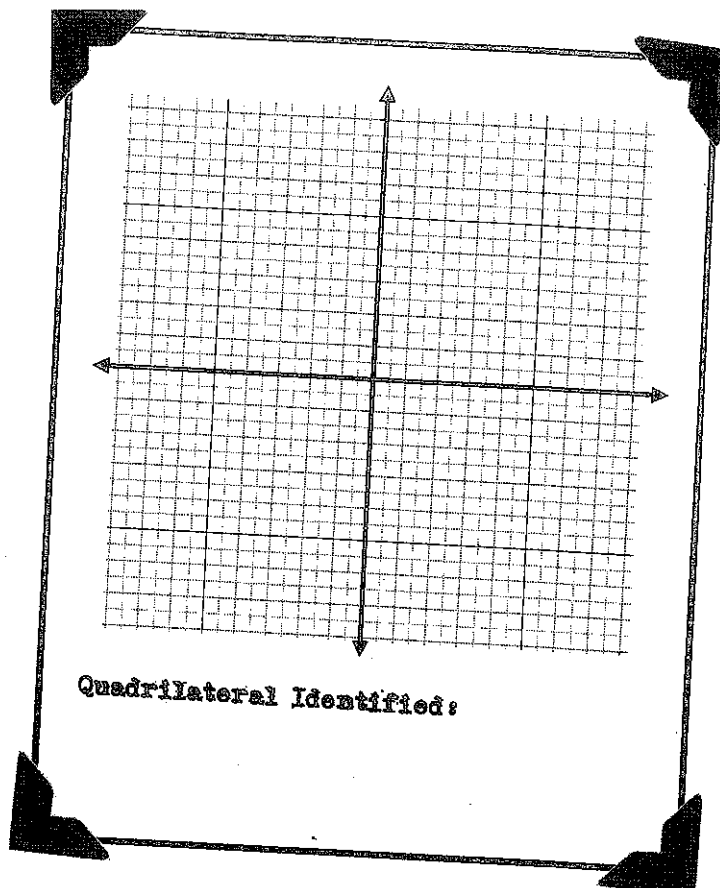
The locations:

$$A: (-8, 5)$$
$$B: (-2, -5)$$

C: (8, 1)

$$D: (2, 11)$$

The EVIDENCE:



Quadrilateral Identified:

Area:

The evidence:

CASE # 4

The locations:

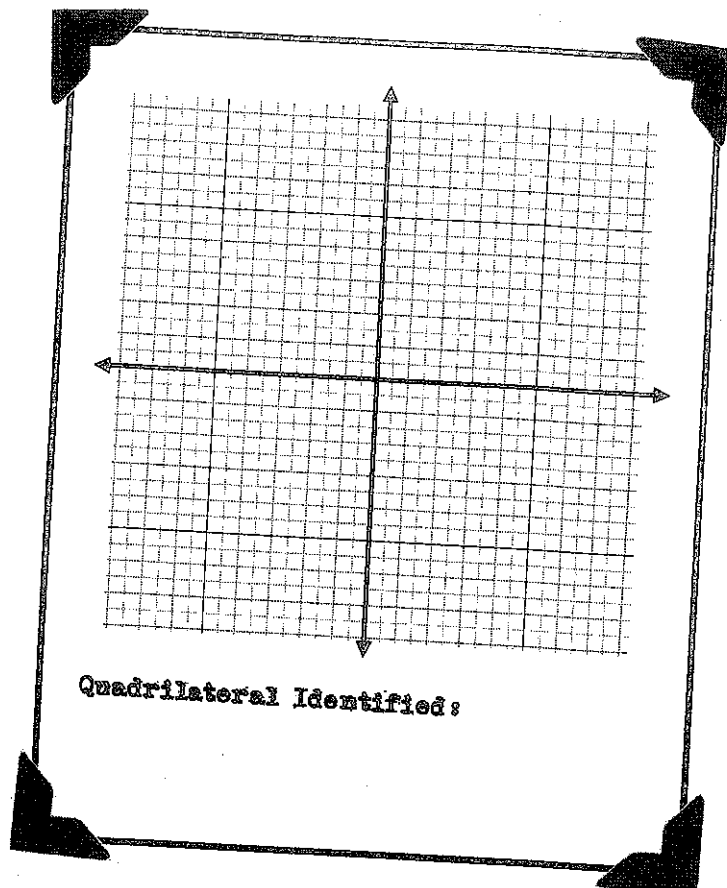
$$A: (1, -9)$$

B: (9, -10)

$C: (8, -2)$

$$D: (-13, 12)$$

The EVIDENCE:



Quadrilateral Identified:

Area:

The evidence:

CASE # 5

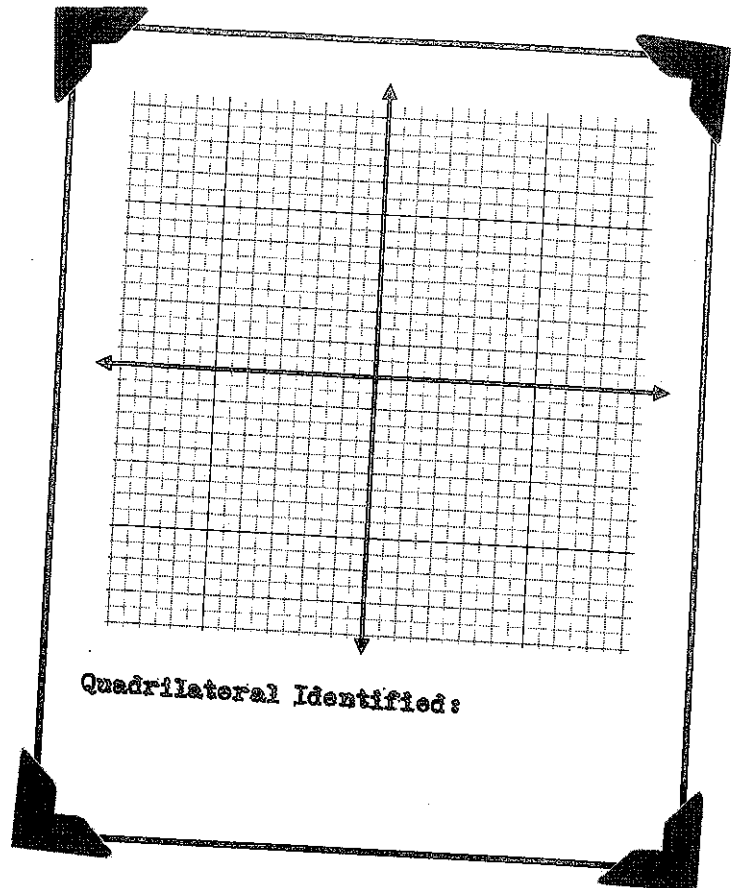
The locations:

$$A: (-10, -7)$$
$$B: (-2, -1)$$

C: (6, -7)

$$D: (-2, -13)$$

The EVIDENCE:



Quadrilateral Identified:

Area:

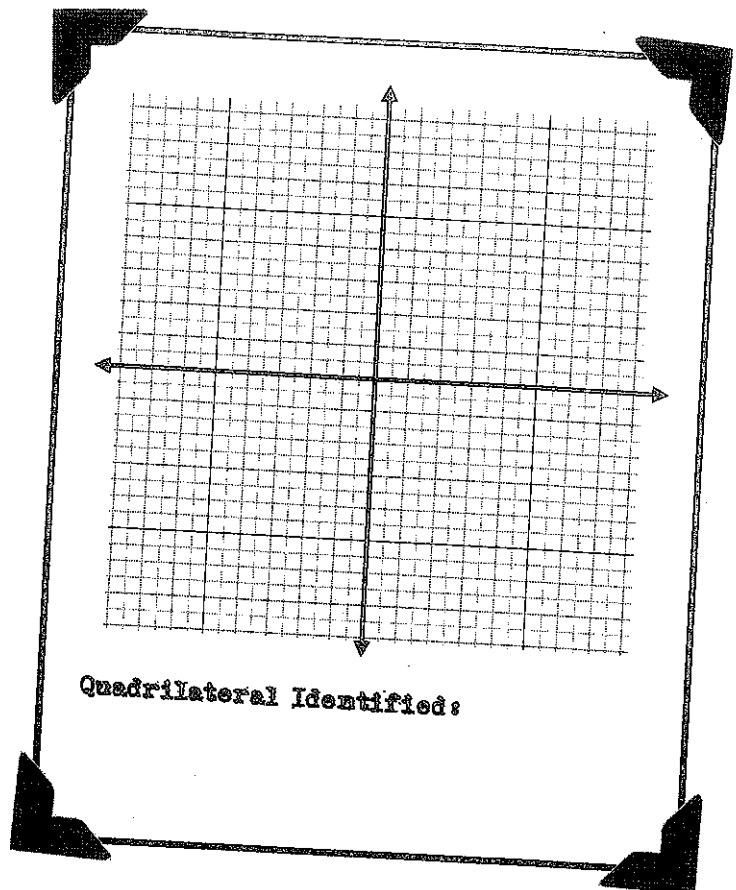
The evidence:

CASE # 6

The locations:

$$A = (1, 5)$$
$$B: (1, -1)$$
$$C: (-11, -6)$$
$$D: (-6, 5)$$

The EVIDENCE :



Quadrilateral Identified:

Area:

The evidence:

CASE # 7

The locations:

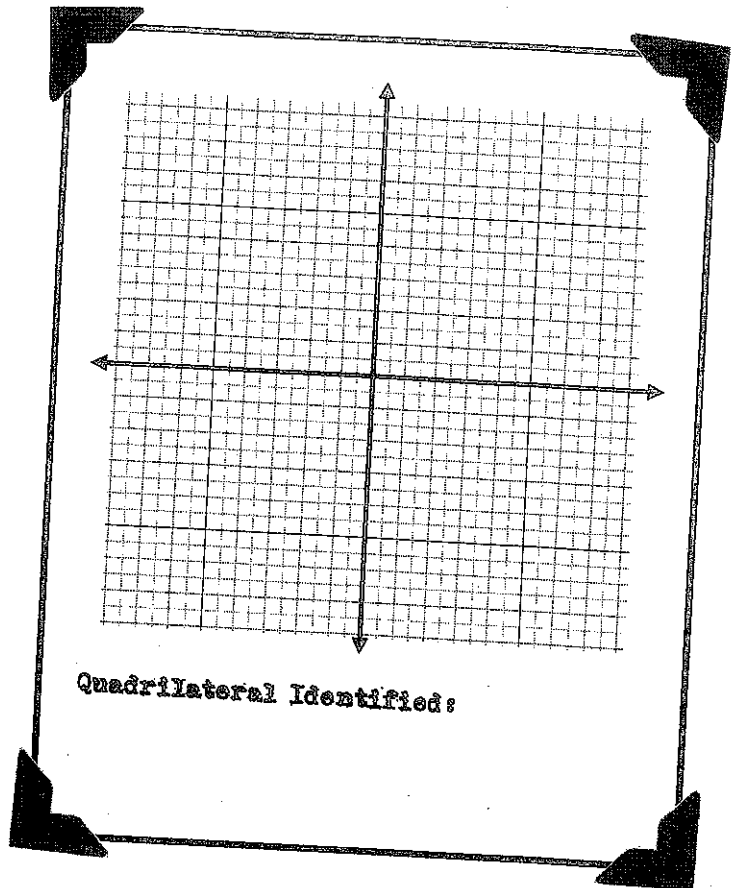
$$A: (-8, 5)$$

B: (1, 11)

C: (11, 5)

$$D: (2, -1)$$

The EVIDENCE:



Area:

The evidence:

CASE # 8

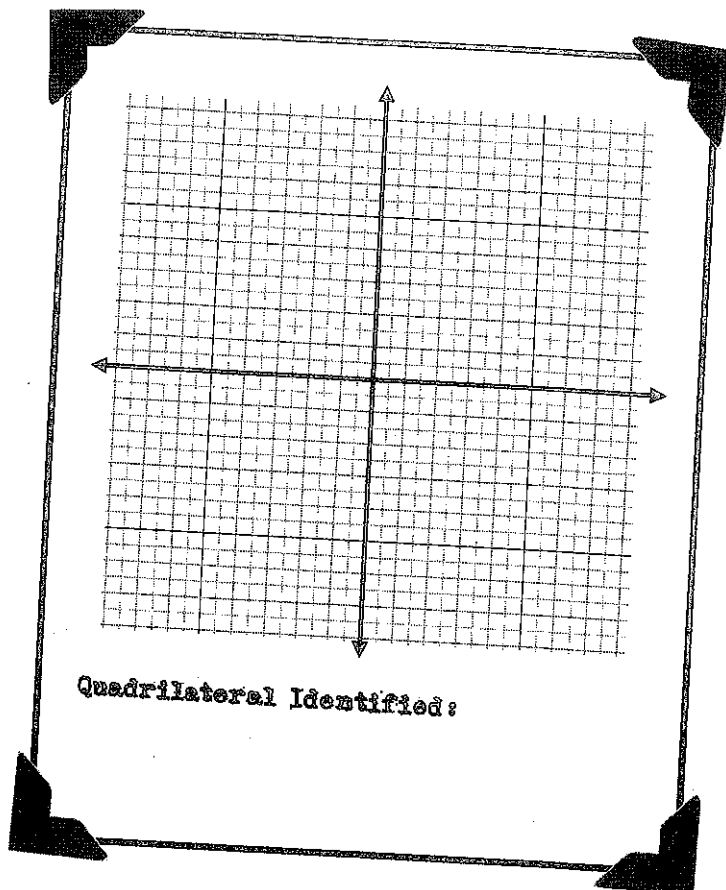
The locations:

$$A: (-2, 3)$$
$$B: (4, -6)$$

C. (10, 2)

D: (6, 8)

The EVIDENCE:



Area:

The evidence:

